

in the news

INSIDE

Dramashop closes its season on a high note with successful productions of "Fumed Oak" and "Orphée."

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Cross-country captain Frank Richardson '77 wins the IC4A meet and advances to the University Division championships on the strength of a fourth place finish in the Division III nationals

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OUTSIDE

Average daily temperatures around the world will drop approximately two degrees from 1980 through the year 2000, Professor of Meteorology Hurd C. Willett has predicted, explaining that the 20-year "cooling-off" period will parallel a similar situation that occurred in the last two decades of the 19th Century.

The California Institute of Technology defeated MIT in a two-hour telephone game of "Othello," a board game based on a series of "dramatic reversals." A computerized rematch will be held this winter.

A Pentagon agency has issued a recently declassified report stating that microwaves can be used as a biological weapon. The report, distributed within the government last March, adds that in a few years it may be feasible to alter neurological and physiological functions by using specially modulated microwaves.

Architecture Professor Donlyn Lyndon has been appointed new chairman of the MIT Committee on Visual Arts (CVA), replacing Wayne Andersen, who resigned last month after heading the committee for ten years. Lyndon, who will continue with his academic responsibilities while CVA chairman, was the head of the Architecture Department from 1967 to 1975.

Gary Daterman of the United States Forest Service has a moth problem. The artificial sex attractant he has developed for a certain species of moth has proved itself a bit too effective. He complains that no matter how hard one tries to wash traces of the chemical off his clothing, "the moths will still find you."

Volleyball captures Eastern title

By Glenn Brownstein

Last November, the MIT women's volleyball team, 17-1 and state champs, waited for an Eastern tournament bid that never came. This November, the Engineers, 24-1 and again state champs, got the bid and made good use of it.

Second-seeded in a field representative of the best small college women's volleyball teams in the East, MIT defeated UMaryland-Baltimore (UMBC) and York (Pa.) in straight games before topping host Mansfield State (Pa.) 15-10, 11-15, 15-6 to win the Eastern Association of Intercollegiate Athletics for Women championship and a trip to California for the Nationals next month.

Mansfield, seeded only fifth despite a 25-3 regular season record, beat Grove City (Pa.) in the first round and upset tourney favorite Salisbury State (Md.) in a tight three-game match to reach the final round and gain the second National tournament bid.

Although as a whole the championships drew few fans, a crowd of more than 250, including 100-plus Pennsylvania high school volleyball players bussed in especially for the finals, filled much of Decker Gym Friday afternoon

to root for the "Cinderella" Mansfield squad in its final-round match.

Led by six-footer Jean Nachtwey and solid spiker Barb Moresco, Mansfield outplayed MIT for more than a game-and-a-half before the Engineers' attack jelled. Despite a flat start, MIT outfought the Mounties in the first game 15-10, but trailed 11-2 in the second before scoring nine consecutive points on senior Lisa Jablonski's service to tie the contest.

While Mansfield squeezed out a 15-11 win in that game, MIT, led by the spiking of co-captain Karyn Altman '78 and Kathy Mensler '78, and the blocking of Sue Coppersmith '77, blitzed the home team 15-6 in the decisive game to take the championship trophy.

As has been the case throughout this remarkable season, MIT's success was based on a complete team effort. While co-captain Sheila Luster '78 dominated the Engineers' front-court game, her efforts were enhanced by the consistent sets of Coppersmith and Lisa Albright '78, who played the entire tournament with a sprained ankle.

According to coach Dave Castanon, Coppersmith and Albright may have been the key



Mark James

MIT volleyball co-captain Sheila Luster '78 (6), shown here dinking a winner over two UMBC blockers, led the Engineers to the Eastern championship.

to the title. "I feel we're potentially better than any team here — the difference is the setting."

In the early rounds, MIT played its strongest match of the tournament in a 15-9, 15-8 win over UMBC, the eventual fourth-place finisher. The Engineers then struggled to a victory over previously undefeated York 15-4,

16-14, to clinch the trip to California and set up the climactic final match against Mansfield. York topped UMBC in two games to place third.

Castanon and seven varsity players will fly to California for the National tournament at Pepperdine College in Malibu, Cal. on Dec. 10 and 11.

New Institute phone billing plan available

By Kent Pitman

On November 1 a new service became available to users of Class A (unrestricted) and Class B (partially restricted) telephones at MIT.

The service, Customer Dialed Account Recording (CDAR), allows direct-dialing of toll and long distance calls, and enables the caller to charge his call to a specific Institute account.

To use CDAR, a caller dials "4," followed by his five-digit account number and the long distance number. This information is processed by a computer, and the call is completed automatically.

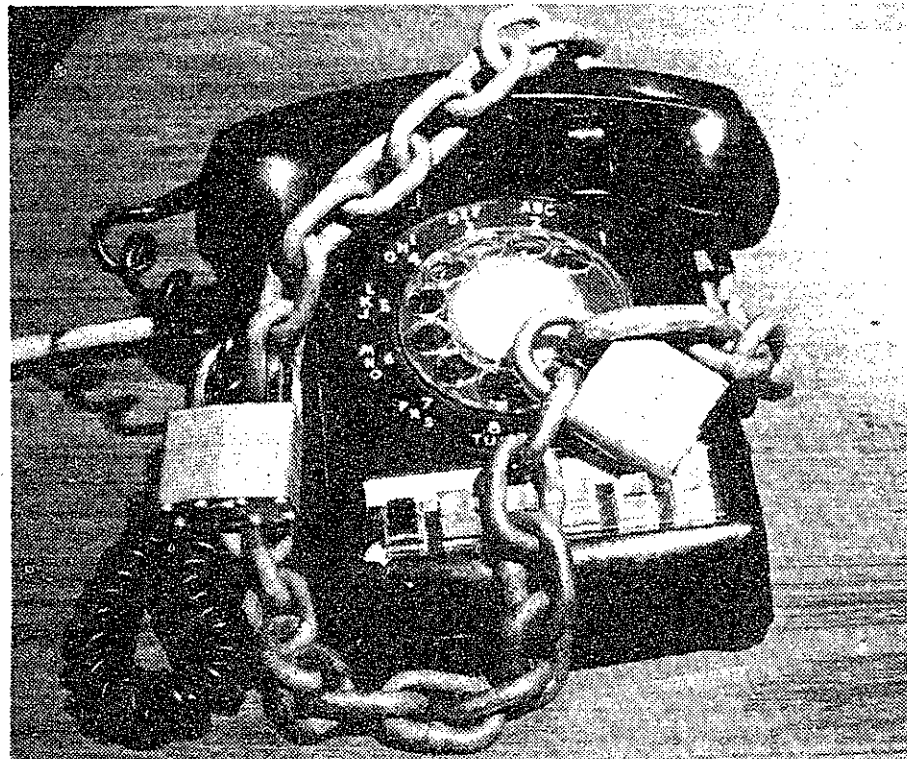
Previously, a caller had to call an operator and give his credit card number before a long dis-

tance call could be put through. The elimination of operator assistance and the use of the Institute's Flexible Route Selection (FRS) system, which chooses the optimum routing to a long distance station via a set of WATS lines rented by MIT, make many calls much less expensive than they would be if made over a normal outside line.

According to information in a handout distributed by the Institute Telecommunications Office, savings of 57% over commercial telephone rates may be possible at certain times of the day.

Although this system will reduce phone call costs, it has disadvantages. Unless the head of an

(Please turn to page 2)



Mark James

Offices with Class A (unrestricted) and Class B (partially restricted) Institute phones may have to resort to a method like this to prevent unauthorized callers from using the new Customer Dialed Account Record billing system.

Nuclear reactors 'crucial for energy'

By Kate Mulrone

There is no rational case for the complete elimination of nuclear power reactors, stated Joel Yellin, of the Center for International Studies (CIS), though he agreed that environmental factors should play a greater role in licensing reactors than in the past.

Yellin, who is also a Political Science lecturer, made his comments in a seminar last Friday entitled "What do we know about the safety of nuclear reactors?," sponsored jointly by CIS, the Technology Studies Program, and the Political Science and Nuclear Engineering Departments.

Yellin asserted that the use of nuclear reactors is "crucial for energy" but that the major issues involved, such as economic cost and health and environmental effects, should be examined warily before the public accepts nuclear power.

He stated that "the risks of

serious accident do deserve examining in licensing" adding that he had serious reservations about the applicability of last year's analysis, entitled WASH 1400, of these risks, prepared by a staff headed by chairman of the department of Nuclear Engineering Professor Norman Rasmussen. He declared that the uncertainty of the probability and consequences of reactor accidents, such as core melt accidents, was inadequately treated.

The arbitrary mathematical calculations used were not an appropriate framework for judging the risks, Yellin continued, adding that there was no physical justification given for these calculations. He stated that they also minimized the true uncertainty ranges of the accidents.

"We cannot assess other catastrophe risks to evaluate the risks of nuclear accidents" as is done in WASH 1400, said Yellin.

He added that the listing of failures given in the analysis of man-machine systems is incomplete in any event. Since we have virtually no experience with the aging of reactors, we cannot justify a comparison with other systems, he added.

Yellin declared that WASH 1400's statement that the risks of nuclear accidents are low is misleading. He asserted that the risks were not as high as some might suggest, but cautioned that this has not been proved. He declared that the risks "deserve further study and analysis" and that changes in regulations regarding reactors are necessary.

"The fallacy of the mean," said Yellin, is the greatest fault of WASH 1400 since individual reactor sites can differ from the averages established in the analysis. He particularly disagreed with the procedures used in evaluating the public health ef-

fects of reactors since they are "dominated by uncertainties of all kinds" such as the effect of radiation on individuals, weather conditions and population densities. He asserted that the genetic effects of radiation were greatly underestimated.

"It is beyond doubt," said Yellin, "that there is not much difference between risks of accidents in nuclear reactors and risks of other industries." He concluded that the present knowledge of nuclear risks is favorable to the reactors but that further work is required to achieve a semi-quantitative evaluation of the risks, necessary since the numerical data given in WASH 1400 is not valuable.

Rasmussen, defending the WASH 1400 report, asserted that "it was a reasonable estimate of nuclear risk" in his opinion and declared that he "did not follow the logic [Yellin] used."

New phone service has disadvantages

(Continued from page 1)

office containing one of these phones has specifically requested that the phone not be covered by the service, the "dial 4" option is automatically available on all Class A and B phones in that office.

One serious drawback to the system is that there is no verification of account number at the time of the call. When the caller picks up the phone and dials a long distance number by the "dial 4" method, a computer will record the number he is calling from, the account number, and the number called, but no verification of the account number is made.

This means that if the caller dials an incorrect account number, the call is still put through, and the error cannot be detected until the bill arrives at the end of the month. If the number does not represent a legitimate account, the cost of the call is billed to the originating phone.

Commenting on this practice, Superintendent of Telecommunications Morton Berlan said, "Abuse tends to come not so much from persons foreign to the phone but from persons with access to the phone." He added that this leaves the responsibility of controlling telephone usage with the persons in that office.

Berlan admitted that the failure of the system to verify the account number at the time the call is placed would leave phones open to a certain amount of fraud, but he noted that the alternative would be to set up a very complicated and expensive computer library system to check the legitimacy of each call.

If a case of fraud were detected, Berlan explained, the information related to the incident would be

forwarded to the supervisor of the person involved, or to the Dean's office if that person were a student.

According to Professor Jack Kerrebrock, Chairman of the Committee on Discipline, telephone fraud is regarded as "misuse of Institute facilities," and considered by the Committee to be a serious offense.

The Tech

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Glenn R. Brownstein '77 — Editor-in-Chief
Rebecca L. Waring '79 — Managing Editor
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notes

* Professor Kim Vandiver will give a lecture on "Schlieren (Color) Photography, With Many examples, and A Demonstration of the Method" at 11am Tuesday, Nov. 23 in Room 4-402. The lecture is sponsored by Professor Harold Edgerton's Stobe Lab Seminar.

* Tsietshi Mashinini, president of the Student Council in Soweto, South Africa, will speak about the "Future of the Liberation Struggle in South Africa" from 12 to 2 this afternoon in the Millikan Room, E53-482

* The MIT Concert Band, John Corley, director, presents its first concert of the season on Saturday, December 4, at 8:30pm at Kresge Auditorium. Dan Christman '76 is the soloist in Brickman's *Dialogue for Oboe and Wind Ensemble*; also pieces by Piston, Persichetti, Gould, E. Williams, and Kazdin. Admission is free.

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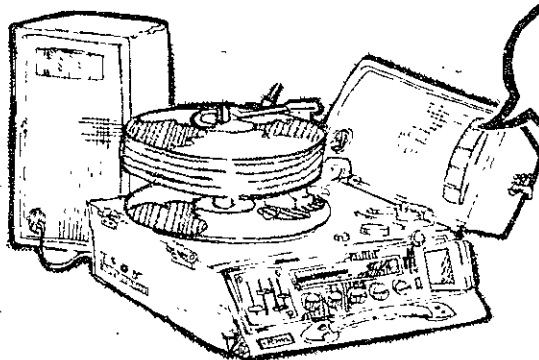
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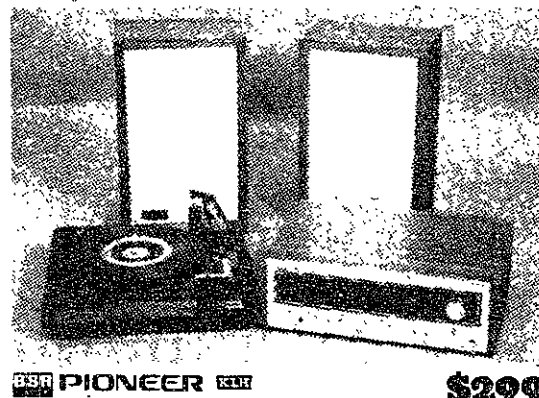
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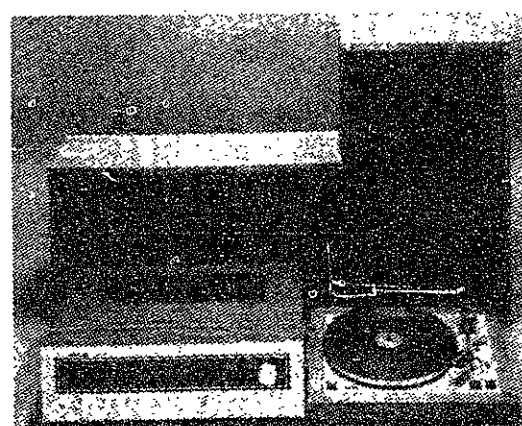
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arts

Dramashop good but uneven

By Kent Pitman

The MIT Dramashop's recent presentations of "Fumed Oak" and "Orphée" go far beyond the simple characterizations and slapdash sets that one would expect of a nine-day production.

Professor Joseph Everingham's direction of "Fumed Oak" was exceptionally fine. Every aspect of the play, in particular casting, character development and set design, seemed well-planned and appropriate.

The play, by Noel Coward, depicts a day in the life of Henry Gow, a man who has grown tired of living with his wife, daughter and mother-in-law. He announces that he has been saving money for a long time so that he could afford to walk out on them. Despite the family's promises to make up for the way they've treated him and his wife's pleas that he take pity, he leaves.

Mark deLemos '78, in the role of Henry Gow, does well in his portrayal of the quiet father who returns home one afternoon to speak his first and final piece and leave his home a free man.

Brooke Jackson, as Gow's wife Doris, is the nagging wife who would make any husband want to break away.

Ann Oshita, Wellesley '79, as the daughter, made excellent use of facial expression in creating the appearance of a fourteen-year-old girl. Her character did not flow as well as it could have, however, and her occasionally abrupt changes of mood were often unconvincing.

Terry Linn's characterization of the elderly mother-in-law was well above par and very effective. Special credit should go to the makeup designer for helping to achieve the transformation.

It would be a mistake to move on without commenting on the excellence of the stage design by

David Muller '77, which drew whispered praise from the audience as the curtain drew back for the opening of the first scene.

"Orphée," a play by Jean Cocteau and directed by William Morris '77, was well done even if lacking the polish evident in "Fumed Oak." This is an unfair comparison, however, this being Morris' first attempt at direction.

Written in 1925, "Orphée" is a departure from the dominating theatrical conventions of that era. The play deals symbolically with the story of a man who has become so involved in other things that he completely ignores his wife.

He realizes his error when Death takes her from him and he is forced to face Death himself in order to recover her. The story is based on the Greek myth of Orpheus and his wife Eurydice.

The performances of Curtis Fennell '77 (Orphée), Margaret Hainsworth '76 (Eurydice) and Jerry Epstein '78 (Heurtebise) gave credibility to an incredible tale. Characterizations by other members of the cast were satisfactory, although some seemed shallow and lifeless.

Special lighting effects by Robert Van der Kloot '76 and set design by Lisa Jablonski '78 were practical and effective.

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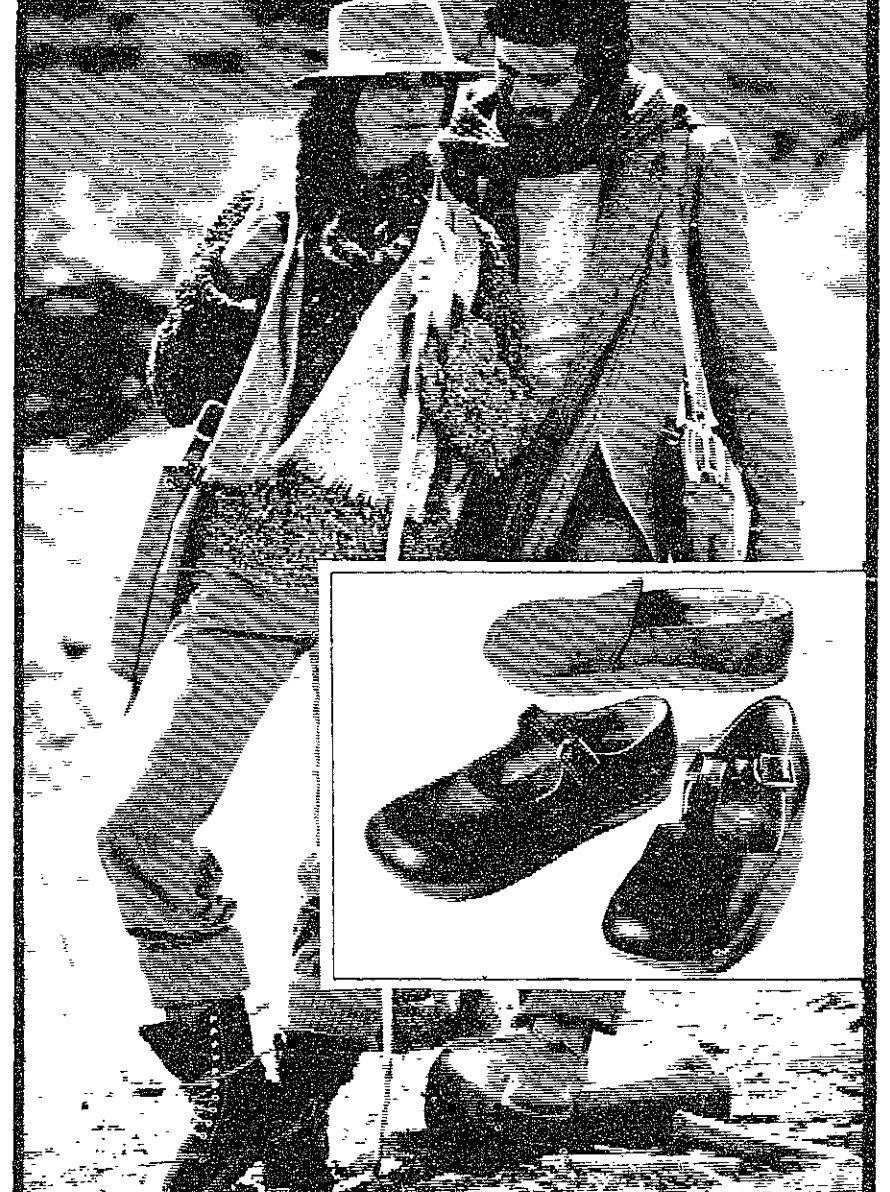
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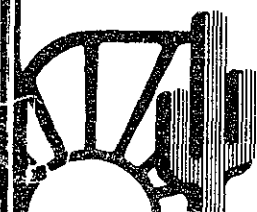
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On Campus Interviews
December 2nd & 3rd



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sports

Harrier Richardson 1st MIT IC4A champ

By Dave Dobos

Cross-country captain Frank Richardson '77 attained All-American honors for the third consecutive year and became MIT's first ever IC4A individual champion in races on November 13 and 15.

Richardson placed fourth in the NCAA Division III National Championships in Cleveland, one position higher than in 1975. His performance qualified him for the NCAA University Division Championships at North Texas State.

As a team, the Engineers could do no better than 28th at the Nationals in a somewhat disappointing climax to such a successful season. The squad did rebound to a 20th position in the IC4A's at Van Cortlandt Park in New York.

MIT coach Pete Close had hoped for a higher finish at the Nationals. He however, noted that for the Engineers to compete in championship meets of such caliber, especially to have been invited to the most prestigious contest in the country, "raised our program a notch" and "can only help the underclassmen" who were able to run in two events.

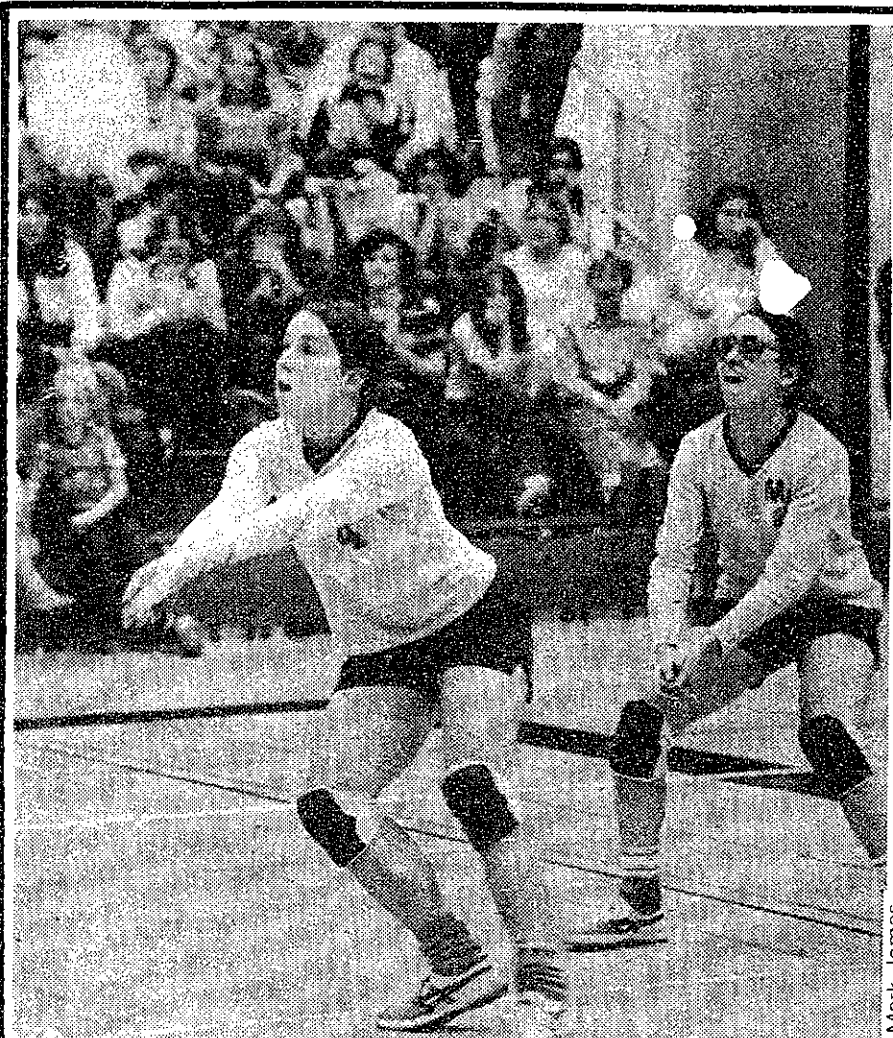
Placing fourth in Cleveland, the sensational senior, who became the only runner from 1975's top five to return to the top five in 1976, is also MIT's first in-

dividual runner to qualify for the University Division Championships. Richardson felt that the snow and freezing temperatures experienced in Cleveland were actually to his advantage. "It hurt the sprinters," he said, referring to those runners who could kick at the end of the race.

Coach Close stated that it was quite an honor for Richardson to be selected as a representative of the entire Division III. The NCAA partially subsidizes the transportation costs involved. Richardson feels that he can perform fairly well at North Texas State because of the longer distance involved (10,000 meters vs. 8,000).

At the IC4A's, Richardson was forced to stop a quarter mile into the race, but then recovered to take the lead at the mile mark. He lost it again at about the two mile, but "leached" off the leader, letting him block the wind and pick the path until the four mile. He regained the pace by sprinting past the leader at the crest of the final hill, holding him off throughout the final 1,000 yard straight-away for the championship.

Richardson felt that it was a "good, tactical race." Close noted that Richardson's time of 25:05 for the 5.0-mile course was nearly a minute and a half faster than



Volleyball co-captain Karyn Altman '78 (left) bumps a Mansfield State serve in Friday's Eastern regional championships at Mansfield, Pa. Sue Coppersmith waits behind Altman as a back-up.

that of Ben Wilson '71, MIT's last premiere cross country runner. There is no doubt that Richardson is MIT's finest distance ace ever.

Close went on to say that if Richardson continues his extensive training, he could develop into an Olympic caliber marathon runner by 1980.

Sigma Chi IM grapplers No. 1

By Tom Curtis

Last Saturday, 115 grapplers from 22 teams fought for the IM wrestling trophy in the duPont Wrestling Room. For the third time in four years, Sigma Chi captured the title, nosing out Phi Gamma Delta (FIJI) 63-30.

Going into the final round, defending champion SAE was in the lead with 30 points. However, since SAE had no one in championship matches, the competition was between Sigma Chi, FIJI, and "Chocolate City" (New House 3) with 26, 20, and 18 points respectively. Each of these teams had three competitors in the finals.

Sigma Chi was assured of at least one champion since two of their grapplers, Kirk Scattergood

'79 and Mike Waxman '78, were the finalists in the 126-pound division. Scattergood won the title for the second year in a row as he pinned Waxman in the first round.

Sigma Chi's Mike Swatek '78 faced Mike Johnson '80 of Chocolate City in the 142-pound class title match. Johnson won a 3-0 decision for the championship.

Chocolate City's Ted Austell '80 also won as he pinned defending champion Jordan Kreidberg '79 of Baker in twenty seconds to grab the 118-pound division title. Chocolate City's Garry Perkins '79 did not fare as well, losing a 2-0 decision to Gary Zieve G of Biology in the 158-pound class.

Of the three top competitors,

FIJI was most successful with all three finalists winning their matches. Bill Krovatin '80 won the 150-pound class by forfeit. In the 177-pound division, Tim Groth '79 won a 3-2 decision over PKT's John Stenard '80. Groth scored the decisive point on an escape with just seconds left in the match.

After winning the 190-pound division championship the last two years, FIJI's Steve Sifferlen '78 moved up to the heavyweight class. Sifferlen easily stopped East Campus's Ed Gillett '80 with a pin in the second round.

Other winners included Yet-Ming Chaing '80 of Baker in the 134-pound class, Dan Jones '79 of New House 3 in the 167-pound class, and Mark Kilchenman '78 of BTP in the 190-pound division.

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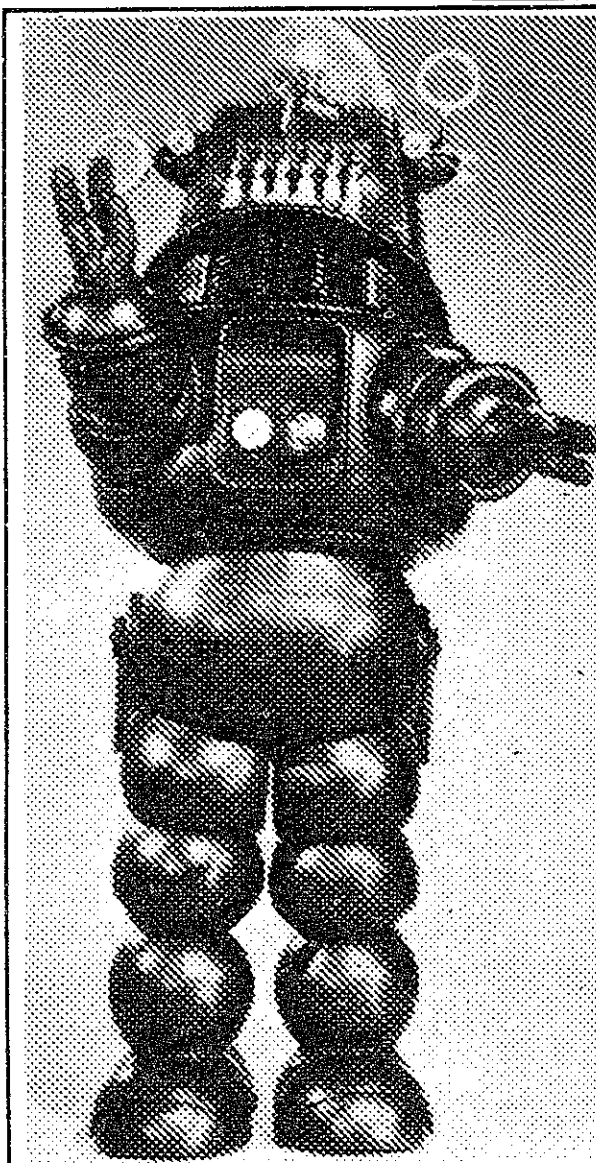
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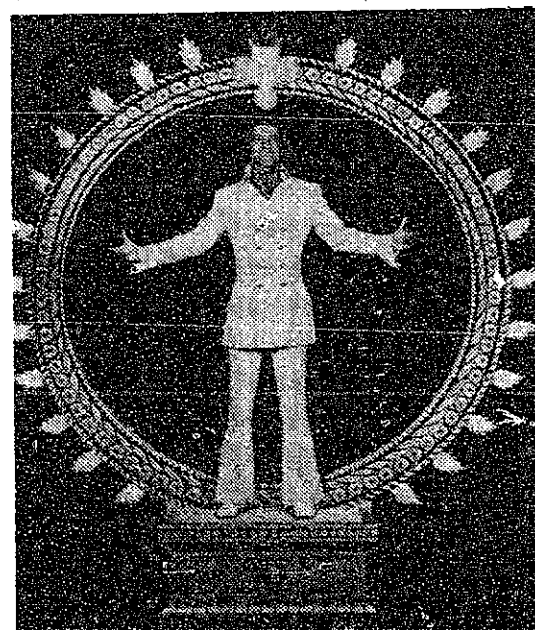
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UNMASKING ON STAGE

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